

CPS FC21

3-VOLT REFERENCE AND FILTER CIRCUIT (0.1)

COMPONENT LIST

CAPACITOR

DES'G	CODE
(20) C1.0-C10.0, C1.1-C10.1	3-4408, 20V 602H (KHEF, 1110C999-009A5)

INTEGRATED CIRCUIT

DES'G	CODE
C11	588A

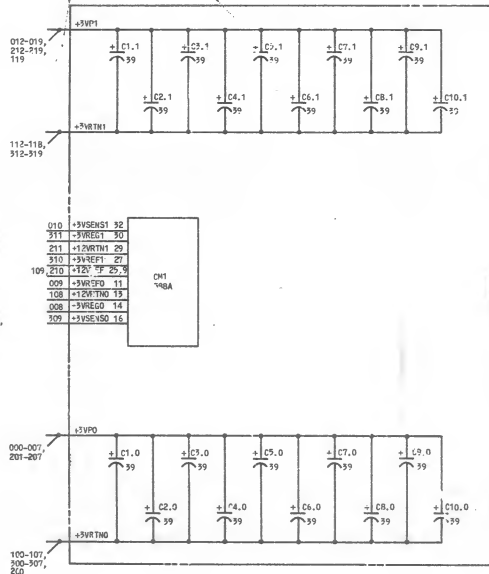
3-VOLT REFERENCE AND FILTER CIRCUIT (0.1) FC21

A. DESCRIPTION

1-15 BOARD PROVIDES REFERENCE AND SENSE INPUTS FOR THE JRT88-F 3-VOLT POWER SUPPLY AND FILTER CAPACITANCE AT THE LOAD. TWO POWER SUPPLIES OF UP TO 4 AMPS EACH CAN BE POWERED BY THE FC21.

THE 3-VOLT REFERENCE OUTPUT IS ACHIEVED THROUGH A VOLTAGE DIVIDER OF R9 AND R10 (FOR CXT 0) AND R7 AND R8 (FOR CXT 1) CONNECTED TO A 12-VOLT REFERENCE. IN ORDER TO BALANCE THE INPUTS IN THE "+" CIRCUIT, R2, EQUIVALENT TO THE PARALLEL COMBINATION R9 AND R10, AND R1 EQUIVALENT TO THE PARALLEL COMBINATION OF R7 AND R8, ARE CONNECTED IN SERIES WITH THE SENSE LEADS.

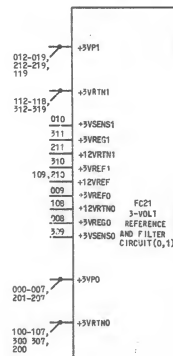
THE FILTER CAPACITANCE FOR EACH CIRCUIT CONSISTS OF TEN 39-μF TANTALUM CAPACITORS IN PARALLEL TO MINIMIZE SERIES RESISTANCE.



MANUFACTURING REFERENCES

CATEGORY	NO.
CIRCUIT PACK CODE	FC21
CONNECTOR ON FRAME	947C
CIRCUIT PACK INFORMATION	SD-5A006-01
FOR LATEST CLASS	2
R CHANGE	2
FOR CURRENT MANUFACTURE	2

SYMBOL



NOTES:

- HORIZONTAL MOUNTING CENTERS AT .500 INCH.
- UNLESS OTHERWISE SPECIFIED: CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

SYSTEM	DESIGN
USED ON	CONTING
1A PROC	IN

NOTICE- NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM - VPPF UNLESS WRITTEN OTHERWISE

FC21 CIRCUIT PACK 3-VOLT REFERENCE AND FILTER CIRCUIT	AT&T CO. STANDARD
2	CPS-FC21
BELL TELEPHONE LABORATORIES HAWTHORNE, N.J.	65

SYMBOL OR CODE	DATE	BY
1	7-2-72	WJ
2D	9-18-76	WJ
2A	2-8-77	WJ
4D1	5/24/81	WJ

